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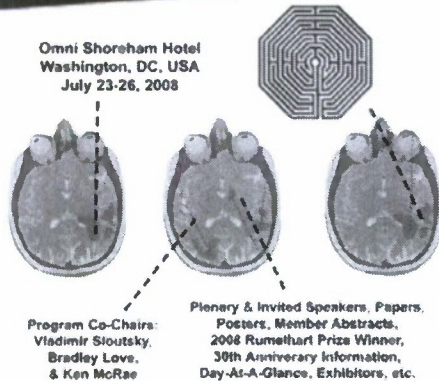
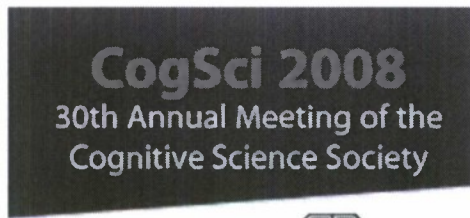
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14. ABSTRACT The Annual Meeting of the Cognitive Science Society is the premier international event for cognitive science work, and it also has been the historical center for interdisciplinary research related to cognition, as well as work that is specifically based on computational cognitive modeling (Schunn, Crowley, & Okada, 1998). The objective of this project was to support student attendance for the 30th Annual Cognitive Science Conference by reducing the registration fees for students so that it is very low. The conference was held on July 23-26, 2008 in Washington, D.C. The CSS received 295 student registrations (with 6 cancellations) for the 2008 conference. This represents an increase of nearly 12% in number of student registrations (259) over the 2007 conference. Further, nearly half of the member attendees were students. Thus, we feel that supporting the attendance of these students through reduced registration was a resounding success and highlights the need and importance of the current support.					
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16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			Christopher A. Sanchez, Ph.D.
U	U	U	UU		19b. TELEPHONE NUMBER (Include area code) 480-727-1589

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Introduction



CogSci 2008 is the 30th Annual Conference of the Cognitive Science Society. The 2008 Annual Conference has attracted more than 500 submissions from across the world, with the program featuring multiple symposia, talks, and posters representing many research themes and approaches within Cognitive Science. Each year, the Annual Conference of the Cognitive Science Society features a particular area of study. The theme of CogSci 2008 is *The Development and Decline of Cognitive Function*. This theme highlights the rise of cognitive function in the course of normal development and its decline and involution as a result of brain damage or normal aging. We believe that understanding the development and decline of cognitive function is critical for understanding* mature well-functioning cognition. This year's theme is reflected in the selection of the two plenary speakers, Linda Smith and David Plaut, whose research

exemplifies the theme of the conference. The program will feature several additional important events. First, there will be a symposium honoring the 2008 Rumelhart Prize winner, Shimon Ullman, as well as Shimon's talk. There will also be an announcement of the 2009 Rumelhart Prize winner. In addition, in 2008 the Cognitive Science Society is marking its 30th Anniversary – that's right our society is about to enter middle age! The 30th Anniversary will be marked by an invited symposium organized by Larry Barsalou. It will consist of two parts, focusing on the trajectories of disciplines and perspectives within Cognitive Science over the past 30 years. The 30th Anniversary Symposium will bring together many of those who were there at the beginning of the Society and who are today leaders in the field of cognitive science.

The 30th Annual Conference will be held on July 23-26, 2008 in The Omni Shoreham Hotel in Washington, DC. Washington is the capital of the United States and the home of an extraordinary number of historical monuments, the Smithsonian Institute, and numerous museums for the arts and the natural sciences. The conference will be co-located with the Annual Meeting of the Society for Mathematical Psychology (<http://www.cogs.indiana.edu/socmathpsych>).

In total, 515 paper submissions were received, of which 383 were accepted as 6-page papers in the Proceedings. These include 166 (32.29%) papers scheduled for oral presentation, and 217 (42.21%) for poster presentation. There were also 6 symposia and 13 publication based talks accepted as oral presentations. In addition, 165 member abstracts were accepted for poster presentation. Finally, there will be 10 tutorials and 2 workshops offered on July 23, the day before the main conference.

Organizing the conference is a large undertaking, involving a tremendous amount of work for an extended period of time. It could not have been done without the help of many people. Primary thanks go to Kevin Gluck, the Cognitive Science Society Conference Officer. Kevin took on the responsibility of organizing the CogSci conference every year in order to have more continuity across

conferences and to improve long-range planning. Kevin does a large part of that organization and planning. Many thanks go to Mike Mozer, CogSci 2008 Event Chair – his insight and sage advice have been greatly appreciated. Simon Dennis has been instrumental in bringing advances in cognitive science to scheduling the conference. For the first time in the history of the Society the scientific program was created by an LSA-based algorithm rather than by human beings – go Deep Blue! Jennifer Wiley did a fabulous job communicating to federal funding agencies that the 30th Annual Conference of the Cognitive Science Society is a worthy endeavor, whereas Niels Taatgen selected recipients of the multiple awards given by the Society. Thanks are also due to the 9 members of the Organizing Committee, for managing various aspects of the conference; the 79 members of the Program Committee, for their critical work in the review process; and the 591 reviewers, for providing thorough and helpful reviews. See the listings of these committees on subsequent pages. In addition, we would like to thank James Stewart, for quickly diagnosing and fixing problems arising from the submission/reviewing software, Chris McNorgan for managing the conference website, and Deborah Gruber, the Society's Business Manager, for contributing to all aspects of the conference planning and preparation. Thanks are also due to all of the generous sponsors for their support of the conference, awards, workshops and tutorials, and for supporting student participation through reduced registration fees and travel support. We specifically acknowledge the Robert J. Glushko and Pamela Samuelson Foundation, the National Science Foundation, Air Force Research Laboratory, the Institute of Education Sciences of the US Department of Education, Air Force Office of Scientific Research, Cognitive Sciences Branch at the Army Research Laboratory - Human Research and Engineering Directorate, Office of Naval Research, Elsevier, the Cognitive Science Society, as well as to the University of Illinois at Chicago and Arizona State University Polytechnic for serving as the institutional sponsors for the federal grants supporting this conference. And above all, we would like to thank all the authors, the presenters, and the attendees of CogSci08 – without you there would have been no conference. Have a great 2008 conference and have fun in the Capital City!

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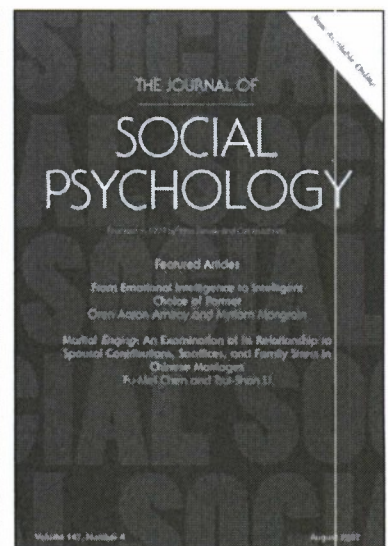
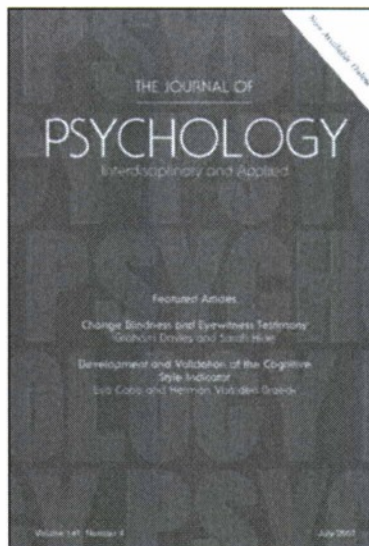
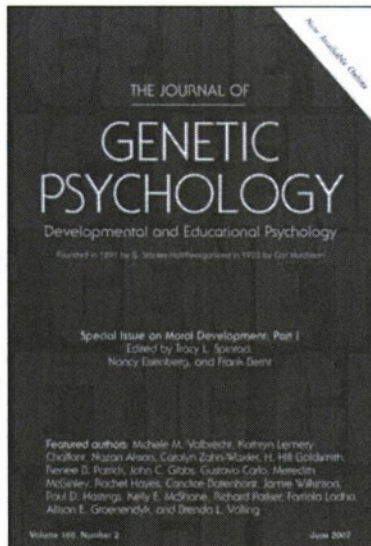
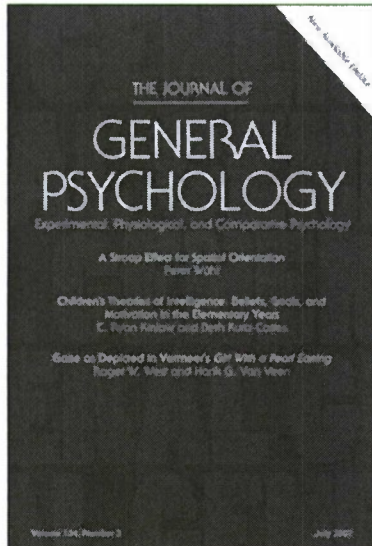
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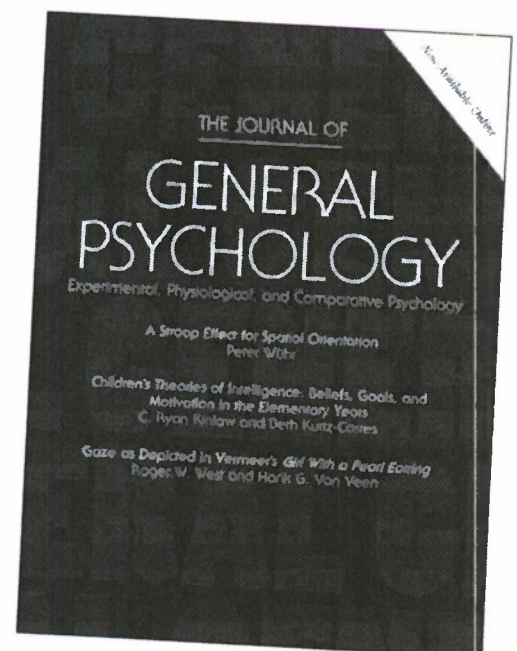
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Submit all manuscripts and figures electronically to <http://mc.manuscriptcentral.com/heldref/gen>. The manuscript should be submitted as a double-spaced Word file with minimal formatting and in Times or Times New Roman. Please do not use word-processing styles, forced section breaks, or automatic footnotes.

Manuscripts must adhere to the conventions of style and format described in the Publication Manual of the American Psychological Association (5th ed., 2001). The checklist on pp. 379-382 of the manual is especially helpful in preparing manuscripts for submission.

*** Please be sure to visit the Heldref table at the exhibit Hall.**



2008 Paper Awards

Marr Prize

The Marr Prize, named in honor of the late David Marr, is awarded to the best student paper at the conference. All student first authors were eligible for the Marr Prize for the best student paper. The Marr Prize includes an honorarium of \$1,000 and is co-sponsored by The Cognitive Science Society and Elsevier.

The winner of the 2008 Marr Prize for Best Student Paper is:

Michael Frank, Evelina Fedorenko, Edward Gibson (*see page 19 of the program*)

*Language as a Cognitive Technology:
English-speakers match like Pirahã when you don't let them count.*

Computational Modeling Prizes

Four prizes worth \$1,000 each are awarded for the best full paper submissions to CogSci 2008 that involve computation cognitive modeling. The four prizes represent the best modeling work in the areas of perception/action, language, higher-level cognition, and applied cognition.

The winners of the 2008 Computational Modeling Prizes are:

Applied Cognition (*see page 14 of program*)

Gideon Borensztajn, Jelle Zuidema, and Rens Bod

*Children's grammars grow more abstract with age –
Evidence from an automatic procedure for identifying
the productive units of language.*

Perception/Action (*see page 19 of program*)

Joseph Toscano and Bob McMurray

*Using the distributional statistics of speech
sounds for weighting and integrating
acoustic cues.*

Language (*see page 23 of program*)

Afsaneh Fazly, Afra Alishahi, & Suzanne Stevenson

*A Probabilistic Incremental Model of Word Learning
in the Presence of Referential Uncertainty.*

Higher-level cognition (*see page 17 of program*)

Pernille Hemmer and Mark Steyvers

*A Bayesian Account of Reconstructive
Memory.*

Cognition and Student Learning (CaSL) Prize

The Cognition and Student Learning (CaSL) Prize is an honorarium of \$1,000 that is awarded to the best paper on research conducted on a topic directly related to cognitive science, educational practice, and subject matter learning. This prize is sponsored by the Institute of Education Sciences.

The winner of the 2008 Cognition and Student Learning Prize is:

Ron Salden, Vincent Aleven, Alexander Renkl, and Rolf Schwonke (*see page 21 of program*)

Worked Examples and Tutoed Problem Solving: Redundant or Synergistic Forms of Support?

Student Travel Awards

Travel awards have been provided to students whose papers were accepted as oral presentations and who indicated a need for travel funding. The \$10,000 in student travel awards is generously sponsored by the Robert J. Glushko and Pamela Samuelson Foundation.

The 2008 Travel Awards went to:

Laura Staum Casasanto
Bella Veksler
Brooke Breaux
Phil Maguire
Michael Frank
Meredith Meyer
Eva Wiese
Noburo Saji

Joseph Austerweil
Heeseung Lee
Marc Ettlinger
Mitchell Herschback
Chris Sims
Ralf Mayrhofer
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We sincerely thank the sponsors of the 30th Annual Cognitive Science Society Conference for their support of the conference, awards, workshops, tutorials, and for supporting student participation through reduced registration fees and travel support.

National Science Foundation	The Robert J. Glushko and Pamela Samuelson Foundation
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University of California-Merced Cognitive Science Program
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Program Notes

	On-Site Registration Hours <i>(Director's Room)</i>	Packet Pick Up Hours <i>(Sales Conference Room)</i>
Tuesday	5:00pm-7:00pm	5:00pm-7:00pm
Wednesday	7:00am-2:00pm, 5:00-7:00pm	7:00am-2:00pm, 5:00-7:00pm
		<i>(West Registration Desk)</i>
Thursday	7:00am-2:00pm, 3:00-4:30pm	7:00am-3:30pm
Friday	8:00am-9:30am, 11:00am - 2:30pm	8:00am-3:30pm
Saturday	8:00am-9:30am	8:00am-3:30pm

Executive Committee Meeting

Wednesday 9:30 – 2:00pm

Chairman's Boardroom

Governing Board Meetings

Wednesday 2:30 – 5:00pm

Thursday 12:15 – 1:45pm

Friday 12:15 – 1:45pm

Chairman's Boardroom

Fellows Committee Meeting

Thursday 7:00pm

Blue Room

Cognitive Science Society Business Meeting

(All members are invited) Saturday 8:00 – 9:15am

Regency Ballroom

How to Cite Your Paper

APA formatted citation for a 6-Page Paper:

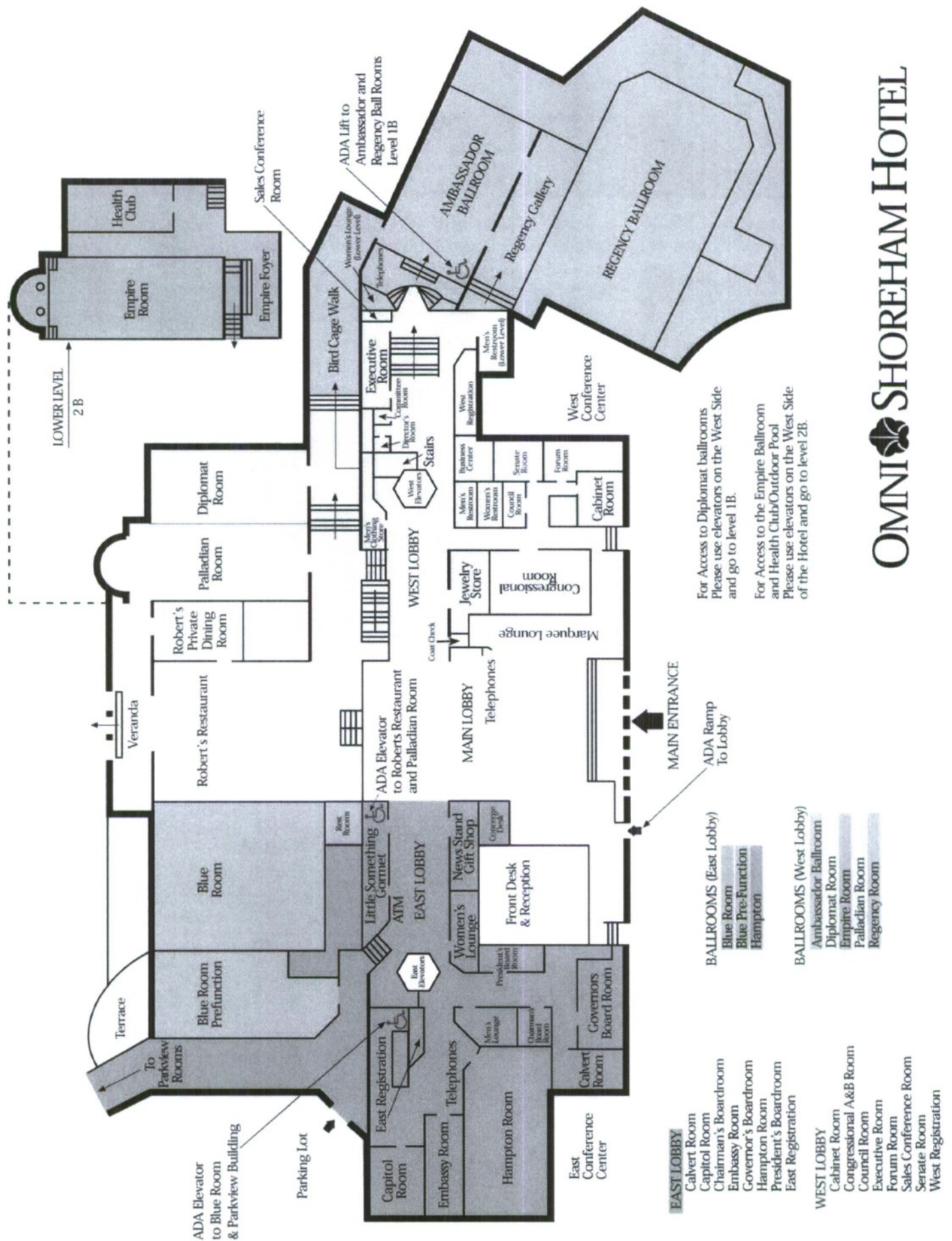
Smith, J., & Jones, M. (2008). This is the title of the paper. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 64-70). Austin, TX: Cognitive Science Society.

APA formatted citation for a Published Abstract (note that this is not a refereed publication):

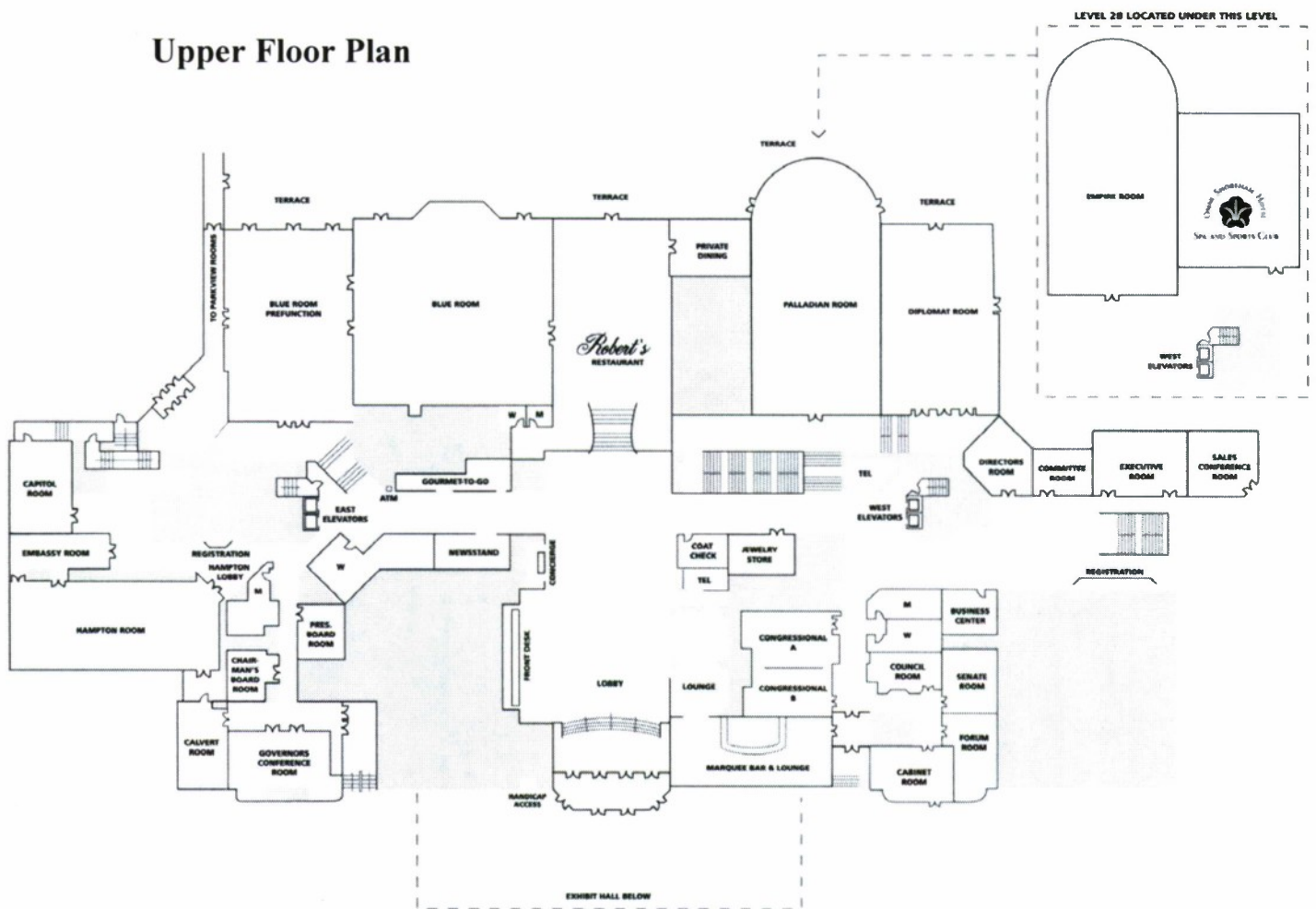
Smith, J., & Jones, M. (2008). This is the title of the abstract [Abstract]. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (p. 201). Austin, TX: Cognitive Science Society.

APA formatted citation for a talk (or poster) presentation:

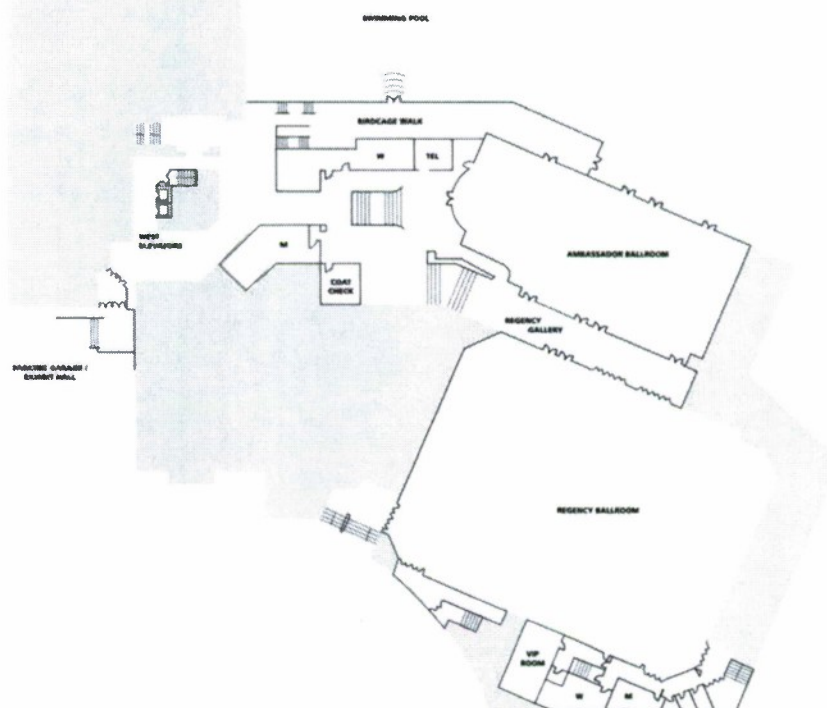
Smith, J., & Jones, M. (2008, July). This is the title of the talk or poster. Paper (or Poster) presented at the 29th Annual Conference of the Cognitive Science Society. Washington, DC.



Upper Floor Plan

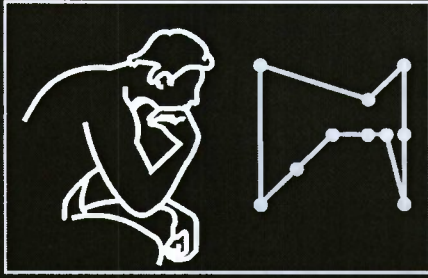


Lower Floor Plan



Conference At A Glance

	Wednesday	Thursday	Friday	Saturday
8:00 – 8:15	<div>Workshops & Tutorials 8:30am to 5pm</div> <div>Coffee Breaks 10 – 10:30 am 3 – 3:30 pm</div> <div>Lunch Noon to 1:30</div>	Opening Remarks		Business Meeting
8:15 – 9:15		Plenary Talk	Plenary Talk	
9:15 – 9:30		Break	Break	Break
9:30 – 11:00		6-track session: 4 talks each	Rumelhart Symposium & 2-track session: 4 talks each	6-track session: 4 talks each
11:00 – 11:15		Break	Break	Break
11:15 – 12:15		7-track session: 3 talks each	7-track session: 3 talks each	7-track session: 3 talks each
12:15 – 1:45		Lunch	Lunch	Lunch
1:45 – 3:15		6-track session: 4 talks each	6-track session: 4 talks each	6-track session: 4 talks each
3:15 – 3:30		Break	Break	Break
3:30 – 4:30		Rumelhart Lecture	30th Anniversary Symposium & 2-track session: 4 talks each	30th Anniversary Symposium & 2-track session: 4 talks each
4:30 – 5:00		Rumelhart Reception		
5:00 – 5:30			Posters	Posters
5:30 – 7:00		Posters		



Journal of Problem Solving

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JPS is a multidisciplinary journal that publishes empirical and theoretical papers on mental mechanisms involved in problem solving. The journal welcomes original and rigorous research in all areas of human problem solving, with special interest in solving difficult problems (e.g., problems in which human beings outperform artificial systems). Examples of topics include (but are not limited to) optimization and combinatorial problems, mathematics and physics problems, theorem proving, games and puzzles, knowledge discovery problems, insight problems and problems arising in applied settings.

Besides behavioral performance measures, such as solution time, proportion and magnitude of errors, also neuroimaging and other neuroscience data relevant to the study of human problem solving are appropriate for the journal. Computational models should, if possible, be expressed in the form of algorithms and tested in simulations. Simulation programs are expected to be available to the readers either as a pseudo-code in the published paper or (preferably) by making the source code and the executable version available for downloading. Authors of theoretical/computational studies are encouraged to focus on modeling those human problem-solving abilities that have not yet been replicated in artificial systems. However, theoretical papers on other topics relevant to the field of problem solving are welcomed as well. JPS also invites papers that present new research methodologies or discuss methodological issues pertinent to the study of human problem solving, as well as reviews summarizing new trends in studying problem solving. JPS will also publish commentaries on papers appearing in its pages. The commentaries will be reviewed like regular papers.

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 Michael D. Lee and Michael J. Paradowski (2007) *Group Decision-Making on an Optimal Stopping Problem*

CogSci 2008 Main Program Information

Workshops & Tutorials • Wednesday, July 23, 2008

8:30–5:00

Meeting Room

Workshop: Psychocomputational Models of Human Language Acquisition (Psychocompla-2008)	<i>William Gregory Sakas, David Brizan</i>	Diplomat Room
Tutorial: Polyscheme and Cognitive Substrate Tutorial	<i>Nicholas Cassimatis, Perrin Bignoli, Unmesh Kurup</i>	Council Room
Tutorial: The Use of Event-Related Potentials to Study the Development and Decline of Cognitive Function	<i>Debra L. Mills, Steven J. Luck</i>	Executive Room
Tutorial: Bayesian Models of Inductive Learning	<i>Thomas L. Griffiths, Charles Kemp, Joshua B. Tenenbaum</i>	Congressional A & B
Tutorial: The Clarion Cognitive Architecture: A Tutorial	<i>Sébastien Hélie, Nick Wilson, Ron Sun</i>	Cabinet Room
Tutorial: Quantum Information Processing Theory	<i>Jerome R. Busemeyer</i>	Senate Room
Tutorial: Dynamic Field Theory: Conceptual Foundations and Applications in the Cognitive and Developmental Sciences	<i>John P. Spencer, Gregor Schöner</i>	Calvert Room

8:30–12:00

Workshop: Preparing Research Grant Proposals for the Institute of Education Sciences: Bringing Cognitive Science to Education Research	<i>Elizabeth R. Albro</i>	Capitol Room
Tutorial: Act-R Tutorial	<i>Niels A. Taatgen, Hedderik van Rijn</i>	Forum Room

10:30–5:00

Tutorial: Computational Modeling of Spoken Language Processing: A hands-on tutorial	<i>Ted J. Strauss, Daniel Mirman, James Magnuson</i>	Governor's Room
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1:30–5:00

Tutorial: Embodied Cognition and Robotics Approaches to Human Cognition and Learning	<i>Chen Yu, Brian Scassellati</i>	Capitol Room
Tutorial: Eye Tracking Research in Infants and Adults	<i>Daniel C. Richardson, Scott P. Johnson</i>	Forum Room

NOTES:

Thursday, July 24, 2008

8:00–8:15

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Opening Remarks

8:15–9:15 • Plenary Talk

Regency Ballroom

Words, Actions, Objects, and Abstractions: Overlapping loops of cause and consequence in developmental process	Linda B. Smith	25
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9:15–9:30 • Coffee Break

9:30–11:00 • 6 Track Session

Symposium

Regency Ballroom

Discovering the Conceptual Primitives:	Jerome Feldman, Lisa Aziz-Zadeh, Daniel Casasanto, Rebecca Saxe, Leonard Talmy	27
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Language Learning (Chair: Rochelle Newman)

Ambassador Ballroom

Learning Novel Neighbors: Distributed Mappings Help Children and Connectionist Models	Rochelle S. Newman, Larissa Samuelson, Prahlad Gupta	29
Fast-Mapping and Reorganization: Development of Verb Meanings As a System	Noburo Saji, Henrik Saalbach, Mutsumi Imai, Yupin Zhang, Hua Shu, Hiroyuki Okada	35
Phonological Constraints on Children's Use of the Plural	Marc Ettlinger, Jennifer A. Zapf	41
Applied Modeling Prize: Children's Grammars Grow More Abstract With Age: Evidence from an Automatic Procedure for Identifying the Productive Units of Language	Gideon Borensztajn, Willem Zuidema, Rens Bod	47

Semantic/Concepts (Chair: Eef Ameel)

Empire Room

Semantic Convergence in the Bilingual Lexicon	Eef Ameel, Gert Storms, Barbara Malt, Fons Van Assche	53
A Computational Model of Conceptual Combination	Phil Maguire, Rebecca Maguire, Arthur W. S. Cater	59
Phonaesthemes: A Corpus-Based Analysis	Katya Otis, Eyal Sagi	65
Modeling Semantic Cognition As Logical Dimensionality Reduction	Yarden Katz, Noah Goodman, Kristian Kersting, Charles Kemp, Joshua B. Tenenbaum	71

Reasoning and Decision Making (Chair: Erica Yu)

Diplomat Room

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11:00–11:15 • Coffee Break

11:15–12:15 • 7 Track Session

Reasoning and Explanation (Chair: Greg Solomon)*Regency Ballroom*

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12:15–1:45 • Lunch (on your own)

Symposium**Regency Ballroom**

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Computational Models of Language Processing (Chair: Theo Vosse) **Ambassador Ballroom**

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Settling Dynamics in Distributed Networks Explain Task Differences in Semantic Ambiguity Effects: Computational and Behavioral Evidence:	Blair C. Armstrong, David C. Plaut	273
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Causal Reasoning and Categorization (Chair: Bob Rehder) **Empire Room**

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Internal and External Forces on Memory and Action
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The Concept of Simulation in Control-Theoretic Accounts of Motor Control and Action Perception	Mitchell Herschbach	315
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Effects of Orthographic and Semantic Distractors on Visual Search for Single Words	Laure Léger, Jean-François Rouet, Christine Ros, Nicolas Vibert	363
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The Dynamic Field Theory vs. the Category Adjustment Model: A Critical Test	John P. Spencer, Wendy Troob, Vanessa R. Simmering	375

3:15–3:30 • Coffee Break

3:30–4:30

*Rumelhart Lecture**Regency Ballroom*

Recognition, Categorization, and the Emergence of Meaning	Shimon Ullman 2008 Rumelhart Prize Winner	377
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4:30–5:30 • Rumelhart Reception	Diplomat Terrace/Empire Patio	
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5:30–7:00 • Poster Session 1	Exhibit Hall	See page 31 of program
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NOTES:

Friday, July 25, 2008

8:15–9:15 • Plenary Talk

Regency Ballroom

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Face and Word Processing: Two Sides of the Same Brain	David C. Plaut	379
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9:15–9:30 • Coffee Break

9:30–11:00 • Rumelhart Symposium & 2 Track Session

Rumelhart Symposium (Chair: Michael Tarr)

Regency Ballroom

Rumelhart Symposium: Integrating Human and Machine Vision: in Honor of Shimon Ullman	Michael J. Tarr, Marlene Behrmann, Christof Koch, Nikos Logothetis, Rafi Malach	381
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The Nature of Learning and Representation (Chair: Bob Berwick)

Ambassador Ballroom

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Modeling the Fan Effect Using Dynamically Structured Holographic Memory	Matthew F. Rutledge-Taylor, Robert L. West	385
Trade-Off Between Capacity and Generalization in a Model of Memory	Guy Tannenbaum, Yehezkel Yeshurun, Shimon Edelman	391
The Impact of Labels on Visual Categorisation: a Neural Network Model	Valentina Gliozzi, Julien Mayor, Jon-Fan Hu, Kim Plunkett	397

Concepts and Categories (Chair: Brian Murphy)

Empire Room

Distinguishing Concept Categories From Single-Trial Electrophysiological Activity	Brian Murphy, Michele Dalponte, Massimo Poesio, Lorenzo Bruzzone	403
Categorizing Fragments of Exemplars: Experimental and Computational Results	Harlan D. Harris	409
Modeling Category Intuitiveness	Emmanuel M. Pothos, Amotz Perlman, Darren J. Edwards, Todd M. Gureckis, Peter M. Hines, Nick Chater	415
Illusory Correlation As the Outcome of Experience Sampling	Jerker Denrell, Gaël Le Mens	421

11:00–11:15 • Coffee Break

11:15–12:15 • 7 Track Session

Language and Cognition (Chair: Lera Boroditsky)

Regency Ballroom

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Using the Distributional Statistics of Speech Sounds for Weighting and Integrating Acoustic Cues	Joseph C. Toscano, Bob McMurray	433
Language As a Cognitive Technology: English-Speakers Match Like Pirahã When You Don't Let Them Count	Michael C. Frank, Evelina Fedorenko, Edward Gibson	439

Visual Word Recognition at Multiple Grain Sizes (Chair: Jason Zevin) *Ambassador Ballroom*

Division of Labor Between Semantics and Phonology in Normal and Disordered Reading Development Across Languages	Jianfeng Yang, Bruce McCandliss, Hua Shu, Jason D. Zevin	445
Variable Vulnerability of Words to Visual Impairment: Exploring Grain-Size Effects in Reading	Giovanni Pagliuca, Padraic Monaghan, Robert McIntosh	451
Constraints for Computational Models of Reading: Evidence From Learning Lexical Stress	Padraic Monaghan, Joanne Arciuli, Nada Seva	457

Cognitive Development (Chair: Aaron Buss)*Empire Room*

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Analogy-Making in Children: the Importance of Processing Constraints	Jean-Pierre Thibaut, Robert French, Milena Vezneva	475

Evaluating Judgments and Meaning (Chair: Robert Lindsey)*Diplomat Room*

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Experience With a Computer Word-Entry Method in Processing Chinese Characters by Fluent Typists	Jenn-Yeu Chen, Chun-Yu Chuang	487
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Overcoming Misconceptions During Learning
(Chair: David Trumpower)*Palladian Room*

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An Empirical Study of Errors in Translating Natural Language into Logic	Dave Barker-Plummer, Richard Cox, Robert Dale, John Etchemendy	505
Learning Associations That Run Counter to Biases in Learning: Overcoming Overshadowing and Learned Inattention	Andrew F. Heckler, Jennifer A. Kaminski, Vladimir M. Sloutsky	511

Discussion*Blue Room*

Human Dimension & Cognitive Performance	Brigadier General Peter Palmer	517
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Higher-Order Cognition (Chair: Andres Guiral)*Executive Room*

A Cognitive Model Testing Moral Seduction Theory: Unconscious Bias and the Role Played by Expertise (<i>Expertise and Moral Seduction</i>)	Andrés Guiral, Waymond Rodgers, Emiliano Ruiz, José A. Gonzalo	519
The “Hard” Problem and Neural Correlates of Consciousness	Peter Slezak	525
Processes and Constraints in Explanatory Scientific Discovery	Pat Langley, Will Bridewell	527

Symposium**Regency Ballroom**

Cognitive Science and Education Research: Engaging Issues of Social Context	Gregg Solomon, Rochel Gelman, Doug Medin, Nancy Nersessian, Laura Schulz, Megan Bang, Christine Massey, Kimberly Brenneman, Wendy Newstetter	529
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Language and Concept (Chair: Thomas Shultz)**Ambassador Ballroom**

Acquisition of Concepts with Characteristics and Defining Features	Thomas Shultz, Jean-Philippe Thivierge, Kristin Laurin	531
Two Eras in Learning Theory: Implications for Cognitively Faithful Models of Language Acquisition and Change	Partha Niyogi, Robert C. Berwick	537
Treebank Parsing and Knowledge of Language: A Cognitive Perspective	Sandiway Fong, Robert C. Berwick	539
Advances in Modeling Human Category Learning with Diva	Kenneth J. Kurtz	545

Decision Making (Chair: Daniel Navarro)**Empire Room**

A Test of the Decision-Time Predictions of the 'Take the Best' Model	Benjamin Schultz, Daniel J. Navarro	547
A Bayesian Model of How People Search Online Consumer Reviews	Stelios Lelis, Andrew Howes	553
From Reduction Back to Higher Levels	William Bechtel, Adele Abrahamsen	559
Stopping Rules and Memory Search Termination Decisions	J. Isaiah Harbison, Eddy J. Davelaar, Michael R. Dougherty	565

Problem Solving (Chair: Julie Booth)**Diplomat Room**

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Cognition & Student Learning Prize: Worked Examples and Tutored Problem Solving: Redundant Or Synergistic Forms of Support?	Ron J. C. M. Salden, Vincent A.W.M.M. Aleven, Alexander Renkl, Rolf Schwonke	589

Language I (Chair: Nathaniel Smith)**Palladian Room**

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The Advantage of the Ungrammatical	Laura Staum Casasanto, Ivan A. Sag	601
Assessing the Structure of Verbal Protocols	Stacey A. Todaro, Joseph P. Magliano, Keith K. Millis, Danielle S. McNamara, Christopher A. Kurby	607
Are Three Words All We Need? Recognizing Genre At the Sub-Sentential Level	Philip M. McCarthy, Stephen W. Briner, John C. Myers, Arthur C. Graesser, Danielle S. McNamara	613

Processes of Attention and Control (Chair: Sunny Klemfani)**Blue Room**

Syllogistic Reasoning With Generic Premises: the Generic Overgeneralization Effect	<i>Sangeet Khemlani, Sarah-Jane Leslie, Sam Glucksberg</i>	619
Opponent Process Control in Linked, Dynamical Agents	<i>Ronnie G. Ward, Robert G. Ward</i>	625
A Computational Model of the Visual Oddity Task	<i>Andrew Lovett, Kate Lockwood, Kenneth Forbus</i>	631
Counting Sheep is a Good Way to Get to Sleep, But the Occasional Aardvark Will Wake You Up: How a Salient Event Improves Performance	<i>Bella Z. Veksler, Wayne Z. Gray</i>	637

3:15–3:30 • Coffee Break**3:30–5:00 • 30th Anniversary Symposium (Part I) & 2 Track Session****30th Anniversary Symposium****Regency Ballroom**

Cognitive Science: The Past 30 Years and the Next 30 Years	<i>John R. Anderson, James L. McClelland, Linda B. Smith, Edwin Hutchins, Lawrence W. Barsalou, Dedre Gentner, Kenneth D. Forbus, William Bechtel, Elissa L. Newport, Douglas L. Medin</i>	643
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Semantic Interference (Chair: Leendert van Maanen)**Ambassador Ballroom**

The Picture-Word Interference Effect is a Stroop Effect After All	<i>Leendert van Maanen, Hedderik van Rijn</i>	645
Priming and Lexical Interference in Infancy	<i>Suzy J. Styles, Natalia Arias-Trejo, Kim Plunkett</i>	651
On the Persistence of Structural Priming: Mechanisms of Decay and Influence of Word-Forms	<i>Gaurav Malhotra, Martin Pickering, Holly Branigan, James A. Bednar</i>	657
Effect of Global Context on Homophone Ambiguity Resolution	<i>Daniel Mirman, James S. Magnuson, Ted J. Strauss, James A. Dixon</i>	663

Children's Understanding of Conceptual Primitives

(Chair: John Opfer)

Empire Room

Representational Change and Numerical Estimation: Effect of Progressive Alignment on the Breadth of Transfer	<i>Clarissa A. Thompson, John E. Opfer</i>	669
Timing of Adults Utterances and Interpretation of Word Meanings in a Discrepant Labeling Situation	<i>Tetsuya Yasuda, Harumi Kobayashi</i>	675
The Structural Alignment and Comparison of Events in Verb Acquisition	<i>Jane B. Childers</i>	681
Will It Float? How Invariance Affects Children's Understanding of Object Density	<i>Heidi Kloos</i>	687

5:00–7:00 • Poster Session II**Exhibit Hall**See
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program

Saturday, July 26, 2008

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8:00–9:15

Cognitive Science Society Business Meeting

9:15–9:30 • Coffee Break

9:30–11:00 • 6 Track Session

Symposium

Regency Ballroom

Understanding Why: the Cognitive Science of Explanation	Tania Lombrozo, Steven Sloman, Michael Strevens, J. D. Trout, Deena Weisberg	693
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Symposium

Ambassador Ballroom

Enhancing Learning Using Adaptive Computerized Tutoring in K-12 Settings	Carol O'Donnell, Robin Harwood, Barry Gholson, Art Graesser, Scotty D. Craig, Wayne Ward, Ronald Cole, Gautam Biswas, Daniel Schwartz, Kefyn M. Catley, Stephanie Siler	695
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Computational Approaches to Language Learning (Chair: Julian Mayor)

Empire Room

Learning to Associate Object Categories and Label Categories: A Self-Organising Model	Julien Mayor, Kim Plunkett	697
Language Modeling Prize: A Probabilistic Incremental Model of Word Learning in the Presence of Referential Uncertainty	Afsaneh Fazly, Afra Alishahi, Suzanne Stevenson	703
A Connectionist Simulation of Structural Rule Learning in Language Acquisition	Aarre Laakso, Paco Calvo	709
Mutual Exclusivity in Cross-Situational Statistical Learning	Daniel Yurovsky, Chen Yu	715

Language II (Chair: Meredith Brown)

Diplomat Room

Syntax and Discourse Constraints Interact At the Level of Structural Representation: Evidence From On-Line Sentence Comprehension	Meredith Brown, Virginia Savova, Edward Gibson	721
Language Abstraction: Consolidation of Language Structure During Sleep	Michelle C. St. Clair, Padraic Monaghan	727
Generalization and Systematicity in Echo State Networks	Stefan L. Frank, Michal Čerňanský	733
Mechanisms of Verb Inflection — Regular Vs. Irregular Or Easy Vs. Hard?	Gert Westermann, Vanja Kovic, Nicolas Ruh	739

Models of Conceptual Structure (Chair: Lei Shi)

Palladian Room

Performing Bayesian Inference With Exemplar Models	Lei Shi, Naomi H. Feldman, Thomas Griffiths	745
Learning a Hierarchical Organization of Categories	Steven Verheyen, Eef Ameel, Timothy T. Rogers, Gert Storms	751
Modeling Typicality: Extending the Prototype View	Wouter Voorspoels, Wolf Vanpaemel, Gert Storms	757
Principles of Generalization for Learning Sequential Structure in Language	Michael C. Frank, Denise Ichinco, Joshua B. Tenenbaum	763

Problem Solving (Chair: Ming Ming Chiu)**Blue Room**

Statistical Discourse Analysis of Group Problem Solving: Evaluations, Wrong Ideas, Rudeness, Justifications, and Micro-creativity	<i>Ming Ming Chiu</i>	769
Upsides and Downsides of Gesturing in Problem Solving:	<i>Patrick J. Cushen, Jennifer Wiley</i>	775
Compound Analogical Design, or How to Make a Surfboard Disappear	<i>Michael E. Helms, Swaroop E. Vattam, Ashok K. Goel</i>	781
Social Science: Complex Cognition in Early Aids Research	<i>Katherine D. Lippa, Valerie L. Shalin</i>	787

11:00–11:15 • Coffee Break

11:15–12:15 • 7 Track Session

Language Comprehension & Processing
(Chair: Alexia Toskos Dils)**Regency Ballroom**

Motion Language Shapes People?S Interpretation of Unrelated Ambiguous Figures	<i>Alexia Toskos Dils, Lera Boroditsky</i>	793
Does Social Information Influence Sentence Processing?	<i>Laura Staum Casasanto</i>	799
The Role of Cognitive Functions in Communication: the Case of Traumatic Brain Injury	<i>Romina Angelieri, Francesca M. Bosco, Katuscia Sacco, Marina Zettin, Livia Colle, Bruno G. Bara</i>	805

Practice, Practice, Practice (Chair: Aryn Pyke)**Ambassador Ballroom**

Why Do the Math? the Impact of Calculator Use on Participants' Actual and Perceived Retention of Arithmetic Facts	<i>Aryn Pyke, Jo-Anne LeFevre, Ruby Isaacs</i>	811
To Understand Your Understanding, You Must Understand What Understanding Means	<i>Jennifer Wiley, Thomas D. Griffin, Keith W. Thiede</i>	817
The Role of Deliberate Practice in Expertise: Necessary But Not Sufficient	<i>Fernand Gobet</i>	823

Reasoning (Chair: Thomas Shultz)**Empire Room**

A Computational Developmental Model of the Implicit False Belief Task	<i>Vincent G. Berthiaume, Kristine H. Onishi, Thomas R. Shultz</i>	825
The Strategy Behind Belief Revision: a Matter of Judging Probability Or the Use of Mental Models?	<i>Ann G. Wolf, Markus Knauff</i>	831
Training a Bayesian: Three-And-A-Half-Year-Olds' Reasoning about Ambiguous Evidence	<i>Elizabeth Baraff Bonawitz, Adina Fischer, Laura Schulz</i>	837

Mental & Spatial Representations (Chair: Thomas Hills)**Diplomat Room**

Evidence for Generalized Cognitive Search Processes At Multiple Levels in a Hierarchical Problem Solving Task	<i>Thomas T. Hills, Robert L. Goldstone, Peter M. Todd</i>	843
The Role of Internal Information in the Spatial Learning Task Through Path Integration:	<i>Kayoko Ohtsu</i>	845
Situated and Prospective Path Planning: Route Choice in an Urban Environment	<i>Jan M. Wiener, Thora Tenbrink, Jakob Henschel, Christoph Hölscher</i>	851

Higher-Order Cognition (Chair: Janet Hui-Wen Hsiao)**Palladian Room**

Hemispheric Asymmetry in Visual Perception Arises From Differential Encoding Beyond the Sensory Level	Janet Hui-Wen Hsiao, Reza Shahbazi, Garrison Cottrell	857
Can Relationality Be Distinguished From Abstractness in Noun Mutability?	Dedre Gentner, Jennifer Asmuth	863
Tracks in the Mind: Differential Entrenchment of Common and Rare Liturgical and Everyday Multiword Phrases in Religious and Secular Hebrew Speakers	Jonathan Berant, Catherine Caldwell-Harris, Shimon Edelman	869

The Nature of Human Capacity Limitations (Chair: Brad Love)**Blue Room**

Predicting Information Needs: Adaptive Display in Dynamic Environments	Bradley C. Love, Matt Jones, Marc T. Tomlinson, Michael Howe	875
Decoupling of Intuitions and Performance in the Use of Complex Visual Displays	Mary Hegarty, Harvey S. Smallman, Andrew T. Stull	881
Efficient Coding in Visual Short-Term Memory: Evidence for an Information-Limited Capacity	Timothy F. Brady, Talia Konkle, George A. Alvarez	887

Culture, Cognition, and Mathematics (Chair: Lindsey Richland)**Executive Room**

Gesturing to Promote Higher-Order Thinking: Cross-Cultural Differences	Lindsey E. Richland	893
Cultural Mixture Modeling: Identifying Cultural Consensus (And Disagreement) Using Finite Mixture Modeling	Shane T. Mueller, Elizabeth S. Veinott	899
Extending the Limits of Counting in Oceania: Adapting Tools for Numerical Cognition to Cultural Needs	Andrea Bender, Sieghard Beller	905

12:15–1:45 • Lunch (on your own)

NOTES:

Symposium**Regency Ballroom**

Rules and Exemplars in Language Acquisition	<i>Rens Bod, Gideon Borensztajn, Daniel Freudenthal, Julian Pine, Fernand Gobet, Carla L. Hudson Kam, Alexander Clark, William G. Sakas</i>	911
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Symposium**Ambassador Ballroom**

Integrating Cognitive Architectures With External Environments: Approaches and Contributions to Validation	<i>Glenn Gunzelmann, Art Pope, Robert Wray, Bradley Best, J. Trafton</i>	913
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Analogy and Reasoning (Chair: Iris van Rooij)**Executive Room**

Identifying Sources of Intractability in Cognitive Models: An Illustration Using Analogical Structure Mapping	<i>Iris van Rooij, Patricia Evans, Moritz Müller, Jason Gedge, Todd Wareham</i>	915
Similarity Between Propositional Elements Does Not Always Determine Judgments of Analogical Relatedness	<i>Ricardo A. Minervino, Nicolás Oberholzer, Máximo Trench</i>	921
Mapping and Inference in Analogical Problem Solving — As Much As Needed Or As Much As Possible?	<i>Eva Wiese, Uwe Konerding, Ute Schmid</i>	927
Human Logic in Spatial Reasoning	<i>Marco Ragni</i>	933

Using Multiple Information Sources in Language Planning and Understanding (Chair: Austin F. Frank)**Diplomat Room**

Speaking Rationally: Uniform Information Density as an Optimal Strategy for Language Production	<i>Austin F. Frank, T. F. Jaeger</i>	939
What Tunes Accessibility of Referring Expressions in Task-Related Dialogue?	<i>Ellen Gurman Bard, Robin L. Hill, Mary Ellen Foster</i>	945
Anticipatory Eye Movements Mediated by Word Order Constraints	<i>Paul E. Engelhardt, Ming Xiang, Fernanda Ferreira</i>	951
Speakers Communicate Their Perceptual-Motor Experience to Listeners Nonverbally:	<i>Susan Wagner Cook, Michael K. Tanenhaus</i>	957

The Use (and Lack Thereof) of Visual and Verbal Information (Chair: Gary Lupyan)**Palladian Room**

Now You See It, Now You Don't: Verbal But Not Visual Cues Facilitate Visual Object Detection	<i>Gary Lupyan, Michael J. Spivey</i>	963
Musical Change Deafness: The Inability to Detect Change in a Non-speech Auditory Domain	<i>Kat R. Agres, Carol L. Krumhansl</i>	969
Picture Perception and the Two Visual Subsystems	<i>Bence Nanay</i>	975
Action Anticipation and Interference: A Test of Prospective Gaze	<i>Erin Cannon, Amanda L. Woodward</i>	981

Action & Explanations (Chair: Lisa M. Oakes)**Blue Room**

How Outcomes of Actions Influence Infants' Representation of Those Actions	<i>Lisa M. Oakes, Sammy Perone, Kelly L. Madole</i>	987
Thinking by Doing and Doing by Thinking: A Taxonomy of Actions	<i>Hansjörg Neth, Thomas Müller</i>	993
The Pragmatics of Explanation	<i>Seth Chin-Parker, Alexandra Bradner</i>	999
Who Framed Roger Rabbit: the Effect of Legal Role and Frame on the Outcome of Civil Disputes	<i>Victoria Gilliland, John C. Dunn, Daniel J. Navarro</i>	1005

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Cognitive Science: The Past 30 Years and the Next 30 Years	<i>John R. Anderson, James L. McClelland, Linda B. Smith, Edwin Hutchins, Lawrence W. Barsalou, Dedre Gentner, Kenneth D. Forbus, William Bechtel, Elissa L. Newport, Douglas L. Medin</i>	643
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Approaches to Language Learning (Chair: Luca Onnis)**Blue Room**

Variation Sets Facilitate Artificial Language Learning	<i>Luca Onnis, Heidi Waterfall, Shimon Edelman</i>	1011
Grounding Word Learning in Multimodal Sensorimotor Interaction	<i>Chen Yu, Linda B. Smith, Alfredo F. Pereira</i>	1017
What You Learn is What You See: Using Eye Movements to Study Infant Cross-Situational Word Learning	<i>Chen Yu, Linda B. Smith</i>	1023
How Features Create Knowledge of Kinds	<i>Shohei Hidaka, Linda B. Smith</i>	1029

Modeling Cognition (Chair: Fermín Moscoso Del Prado Martín)**Empire Room**

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A Rational Analysis of Confirmation With Deterministic Hypotheses	<i>Joseph L. Austerweil, Thomas L. Griffiths</i>	1041
Fluency and Psychological Distance	<i>Daniel M. Oppenheimer, Anuj K. Shah, Adam L. Alter</i>	1047
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5:00–7:00 • Poster Session III**Exhibit Hall**See page
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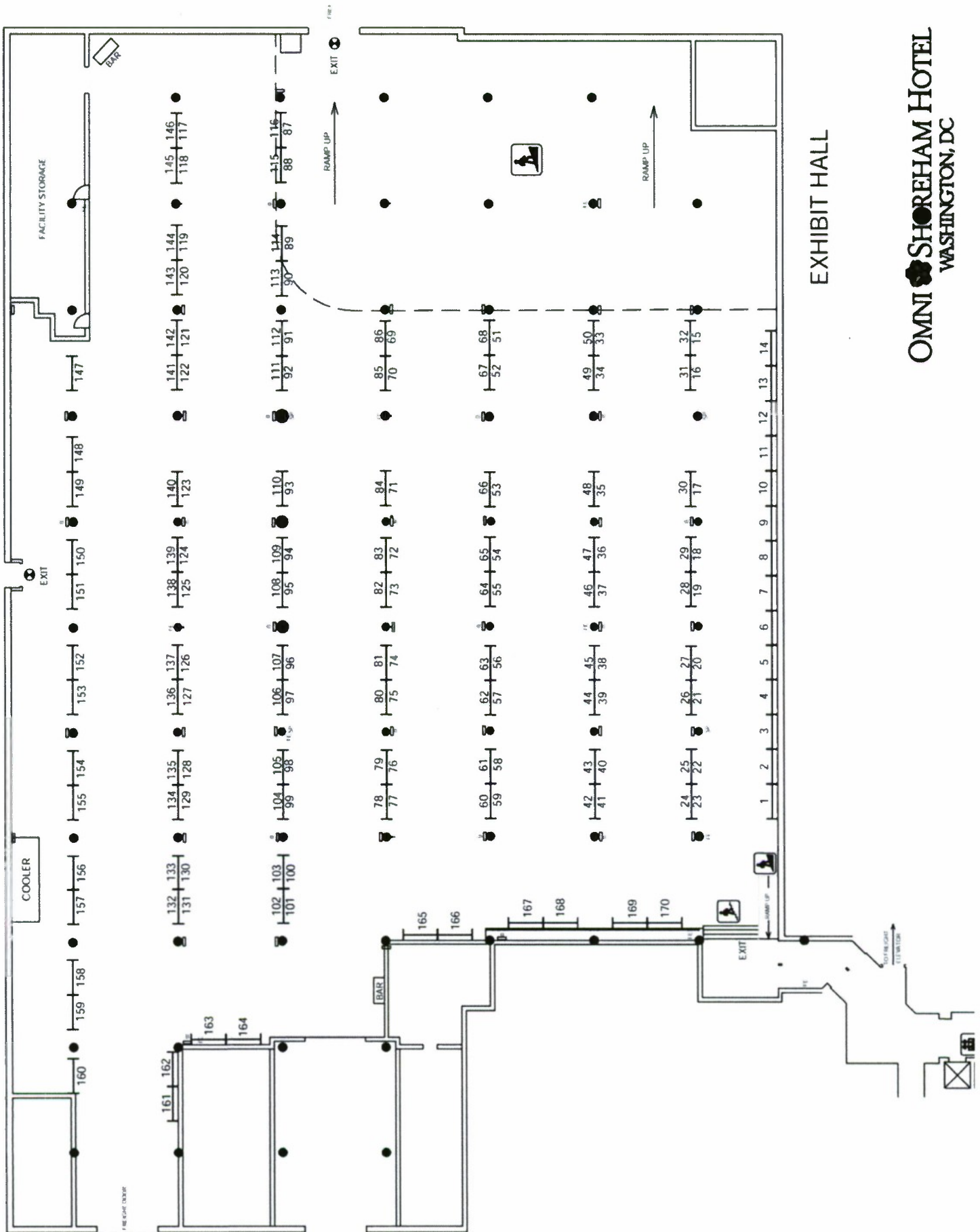
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CogSci 2008 Poster Session I

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3	Funding Opportunities in Cognitive Science from the Office of Naval Research (ONR)	<i>Paul Bello, Ray Perez</i>		
4	Cognitive Science Funding Opportunities from the National Science Foundation (NSF)	<i>Ping Li, Betty Tuller</i>		
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130	Statistical Co-Learning of Visual and Linguistic Regularities to Improve Word-Learning	<i>Brian Riordan, Chen Yu</i>	1962
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135	A Graphical Chunk Production Model: Evaluation Using Graphical Protocol Analysis With Artificial Sentences	<i>Peter C-H. Cheng, Hector Rojas-Anaya</i>			1972
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CogSci 2008 Poster Session III

Higher-Order Cognition: Problem Solving, Reasoning, and Decision Making

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